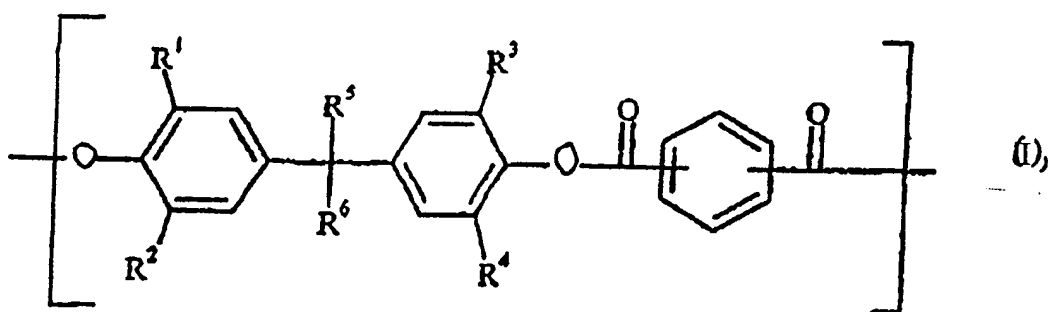


AMENDMENTS TO THE CLAIMS

This Listing Of Claims will replace all prior versions, and listings, of the claims in the application.

Listing of the Claims:

Claim 1 (Previously Presently): A thermoformed diaphragm made of cast of polyarylate film, at least comprising one polyarylate having a structural unit of the formula:



where each of R^1 , R^2 , R^3 , and R^4 , independently of the others, is hydrogen, C_{1-4} -alkyl, C_{1-4} -alkoxy, or halogen, and each of R^5 and R^6 , independently of the other, is hydrogen, C_{1-4} -alkyl, C_{1-4} -alkoxy, phenyl, or halogen.

Claim 2 (Previously Presented): The thermoformed diaphragm as claimed in claim 1, wherein $R^1 = R^2$ and $R^3 = R^4$, and each, independently of the others, is hydrogen or C_{1-4} -alkyl.

Claim 3 (Currently Amended): The thermoformed diaphragm as claimed in claim 2, wherein ~~$R^1 = R^2$ and $R^3 = R^4$, and are each hydrogen or C_{1-4} -alkyl~~ the cast of polyacrylate film is obtained by applying, by means of a suitable casting device or doctor blade to a glass substrate, or by means of a suitable casting device, directly or

onto an intermediate film, onto a continuous substrate, and in each case predrying, peeling away and finally drying the resulting film, where in the case an intermediate film is used the cast of polyacrylate film is also separated from the intermediate film.

Claim 4 (Previously Presented): The thermoformed diaphragm as claimed in claim 1, wherein each of R⁵ and R⁶, independently of the other is C₁₋₄-alkyl.

Claim 5 (Previously Presented): The thermoformed diaphragm as claimed in claim 4 has a thickness of from 5 to 200 μ m.

Claim 6 (Previously Presented): A process comprising utilizing the thermoformed diaphragms as claimed in claim 5 as diaphragms for acoustic transducers for acoustic applications.

Claim 7 (Previously Presented): The process as claimed in claim 6 in microphone capsules, mobile telephones, hands-free systems, radio sets, hearing devices, headphones, microradios, computers, PDAs, and/or signal generators.

Claims 8 to 12 (Cancelled).

Claim 13 (Withdrawn): A process for producing thermoformed diaphragms as claimed in claim 1 from cast polyarylate films that also contain a dye and/or a nonionic polyol surfactant wherein the cast polyarylate films are heated through irradiation with infrared light, where appropriate after a preparatory process and are then deformed by means of thermoforming to give diaphragms, and then, where appropriate, subjected to finishing processes.

Claim 14 (Withdrawn): The process for producing cast polyarylate films as claimed in claim 8 wherein the polyarylate casting solution are applied to a substrate, are peeled away from this substrate after a predrying period, and are then dried fully.

Claim 15 (Withdrawn): The process as claimed in claims 14, wherein the polyarylate casting solutions are applied to a continuous substrate.

Claim 16 (Withdrawn): The process as claimed in claim 14, wherein the polyarylate casting solutions are applied to an intermediate film conducted on the substrate and/ after a predrying period, are peeled away together with the intermediate film from this substrate, and are then dried fully.

Claim 17 (Withdrawn): The process as claimed in claim 16, wherein the intermediate film used comprises a polyethylene terephthalate film.

Claim 18 (Withdrawn): The process as claimed in claim 17, wherein the average thickness of the cast polyarylate films after final drying is from 5 to 200 μm .

Claim 19 (Withdrawn): The process as claimed in claim 14 wherein a solution-application or lamination process is utilized to coat the cast polyarylate films.

Claim 20: (Previously Presented): The thermoformed diaphragm as claimed in Claim 4, wherein each of R^5 and R^6 is methyl.

Claim 21 (Previously Presented): The thermoformed diaphragm as claimed in claim 3, wherein each of R^5 and R^6 , independently of the other, is C_{1-4} -alkyl.

Claim 22 (Previously Presented): The thermoformed diaphragm as claimed in claim 5 has a thickness of from 5 to 100 μm .

Claim 23 (Previously Presented): The thermoformed diaphragm as claimed in claim 1 has a thickness of from 5 to 200 μm .

Claim 24 (Previously Presented): The process as claimed in claim 5, wherein the thermoformed diaphragms are utilized as microphone diaphragms and/or loudspeaker diaphragms.

Claim 25 (Previously Presented): The process comprising utilizing the thermoformed diaphragms as claimed in claim 1 as diaphragms for acoustic transducers for acoustic applications.

Claims 26 to 34 (Cancelled).

Claim 35 (Previously Presented): The thermoformed diaphragm as claimed in Claim 1, wherein R^1 , R^2 , R^3 and R^3 are each hydrogen and R^4 and R^5 are each methyl.

Claim 36 (Currently Amended): The thermoformed diaphragm as claimed in claim 1 that also includes additives that is a dye from the group "C.1. Solvent Yellow 93", ~~"Solvent Yellow 202"~~ or ~~"Macrolex Orange R"~~ and/or a nonionic polyol surfactant "C.1. Solvent Yellow 16" or "C.1. Solvent Orange 107", and/or non-ionic water-soluble polyoxyalkylenes.